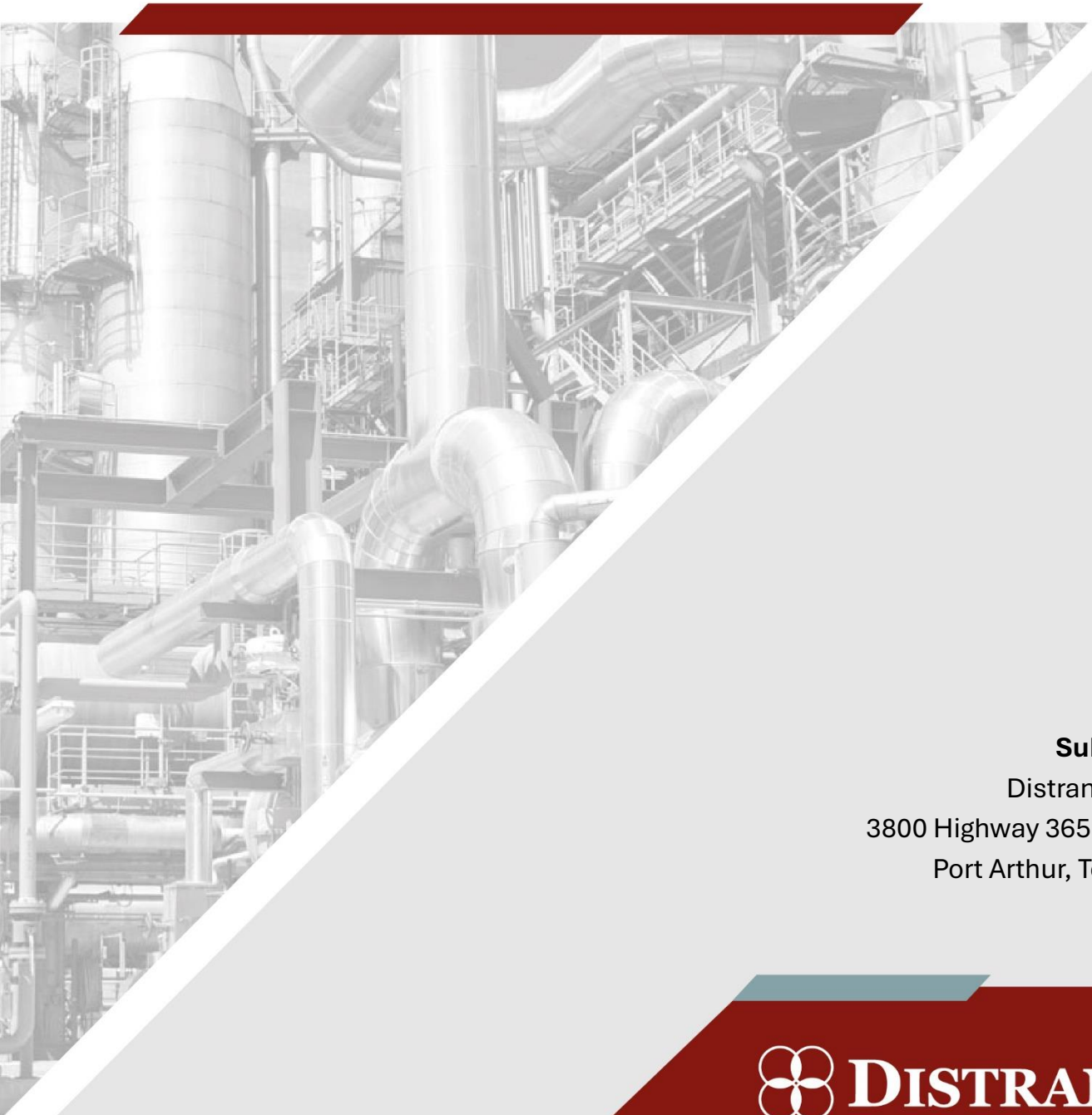
Distran Ultra Pro X

Executive Summary

Submitted to
The United States Environmental Protection Agency
Air Emission Measurement Center



Submitted by
Distran USA Corp.
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Submission information

Request Number	ALTTECH-57
Submission Date	24.09.2024
Company Name	Distran USA Corp.
Submission Point of Contact	Daniel Moseley
Product Name	Ultra Pro X
Technology Type	Component-level hand-held acoustic leak imaging camera for periodic screening
Target Applicability	Broadly applicable across the sector
Target Emission Leak Rate Threshold	1 kg per hour
Request Nos. of Connected Requests	N.A

Distran Ultra Pro X – Executive Summary

Distran USA is pleased to submit its Acoustic Leak Imaging (ALI) method for consideration by the Environmental Protection Agency (EPA) as an Alternative Test Method (ATM) for fugitive methane emissions periodic monitoring (§60.5398b(b)). This advanced approach leverages state-of-the-art acoustic imaging to detect and locate methane leaks with exceptional precision, providing a cost-effective and efficient solution for regulatory compliance.

Distran USA Corp. is a subsidiary and distributor of Distran Ltd., a leader and pioneer in acoustic leak detection technology. Distran's flagship detector, the Ultra Pro X, an intrinsically safe ALI camera, is trusted worldwide for detecting leaks across various gas types, including methane, and is used daily in critical infrastructure.

Overview of Technology and Benefits

The Distran Ultra Pro X acoustic camera is an advanced, hand-held leak detection device designed for component-level periodic monitoring. The camera works on the principle of ALI to detect the ultrasounds emitted by pressurized gas leaks. It employs a cutting-edge acoustic

sensor array, an integrated optical camera, and real-time data processing to make the sound visible and pinpoint the localization of the leaks in real-time on the camera's display.

Key features of the Ultra Pro X include:

- **Intrinsically safe**: Certified for use in potentially explosive environments, the camera detects leaks from a safe distance, ensuring operator safety during inspections.
- **User-friendly and efficient**: The camera's intuitive design enables operators to quickly become proficient with minimal training. Its wide field of view and clear display support faster and more efficient inspections.
- **Real-time detection and clear visualization**: The camera processes and displays acoustic data instantly, delivering immediate results without requiring complex interpretation.
- **High sensitivity**: Capable of detecting leaks as small as 0.2 liters per hour, the camera meets EPA standards with a 90% probability of detecting leaks below 1 kg/h.

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Summary of Submitted Documents

File Name	Document Description	CBI
Distran - Ultra Pro X Technology description.pdf	**Distran Ultra Pro X Technology Description**: Technology and scientific theory overview	
Distran - Ultra Pro X Alternative test method.pdf	**Distran Ultra Pro X Alternative test method**: Detailed description of the method and how to conduct surveys	
IECEx_FIDI_23.0008_000.pdf	**IECEx Certificate of Conformity**: Certificate indicating conformity of Ultra Pro X to intrinsic safety standards for Ex ic IIC T5 Gc by International Electrotechnical	
METEC -Survey Emission Detection and Quantification Final Report for Distran Ultra Pro X.pdf	**Survey Emission Detection and Quantification Final Report**: Data Report for the testing of the Ultra Pro X under METEC protocol	X
Distran - Ultra Pro X User manual v2.1.29.pdf	**Distran Ultra Pro X User manual**: User manual providing instructions and guidelines on how to operate the Ultra Pro X	X